

FIGURE 1

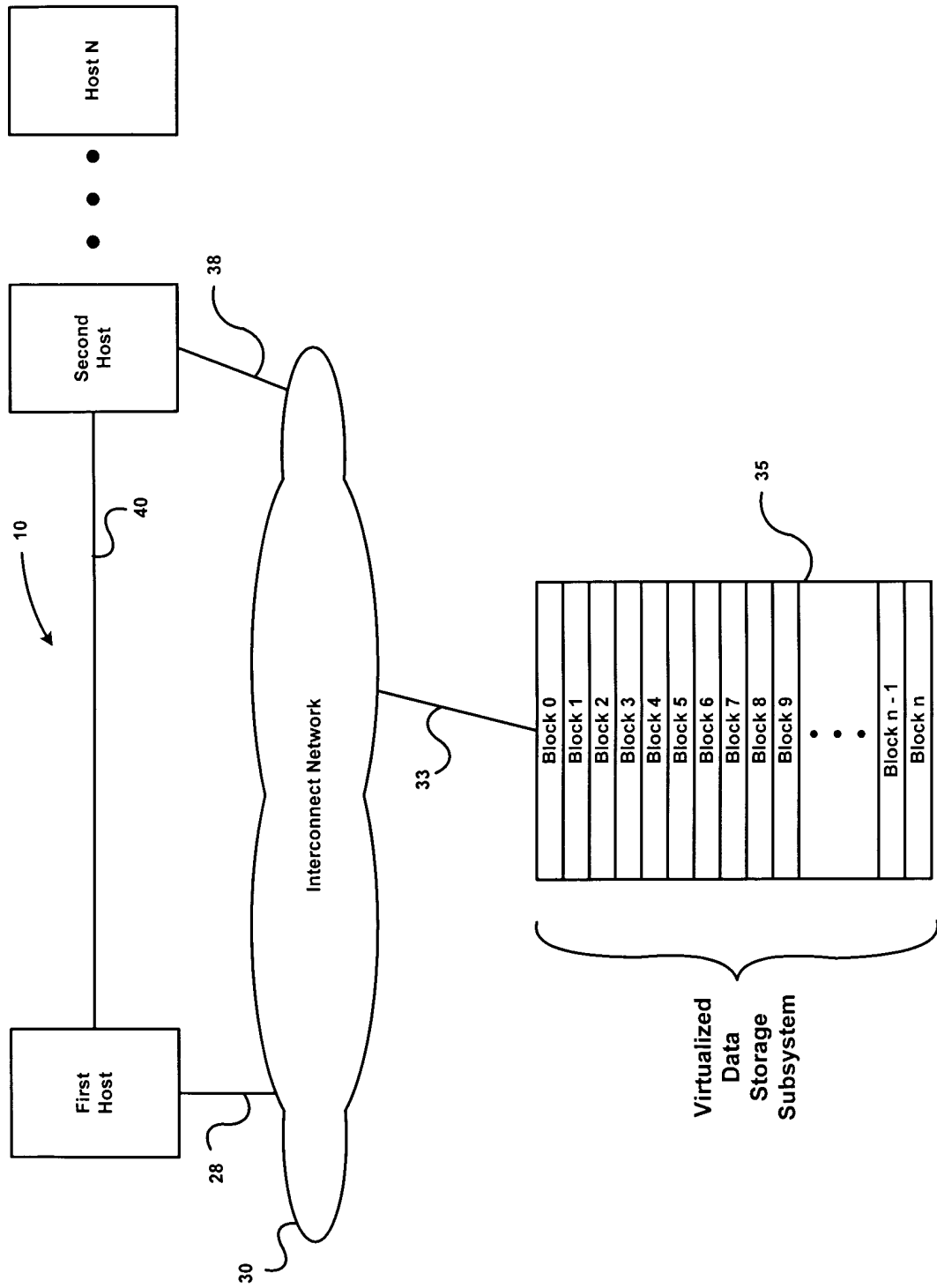


FIGURE 2

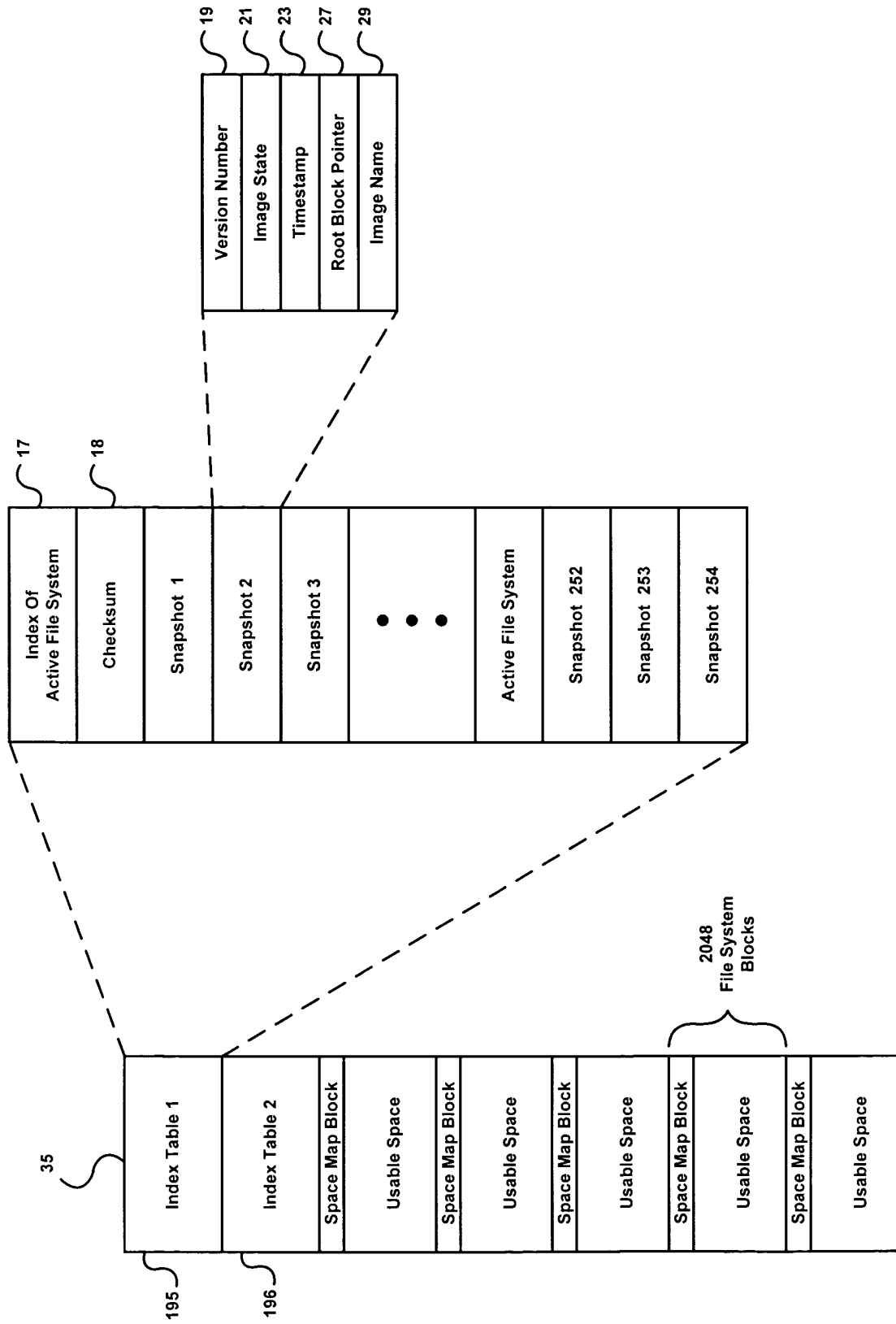


FIGURE 3

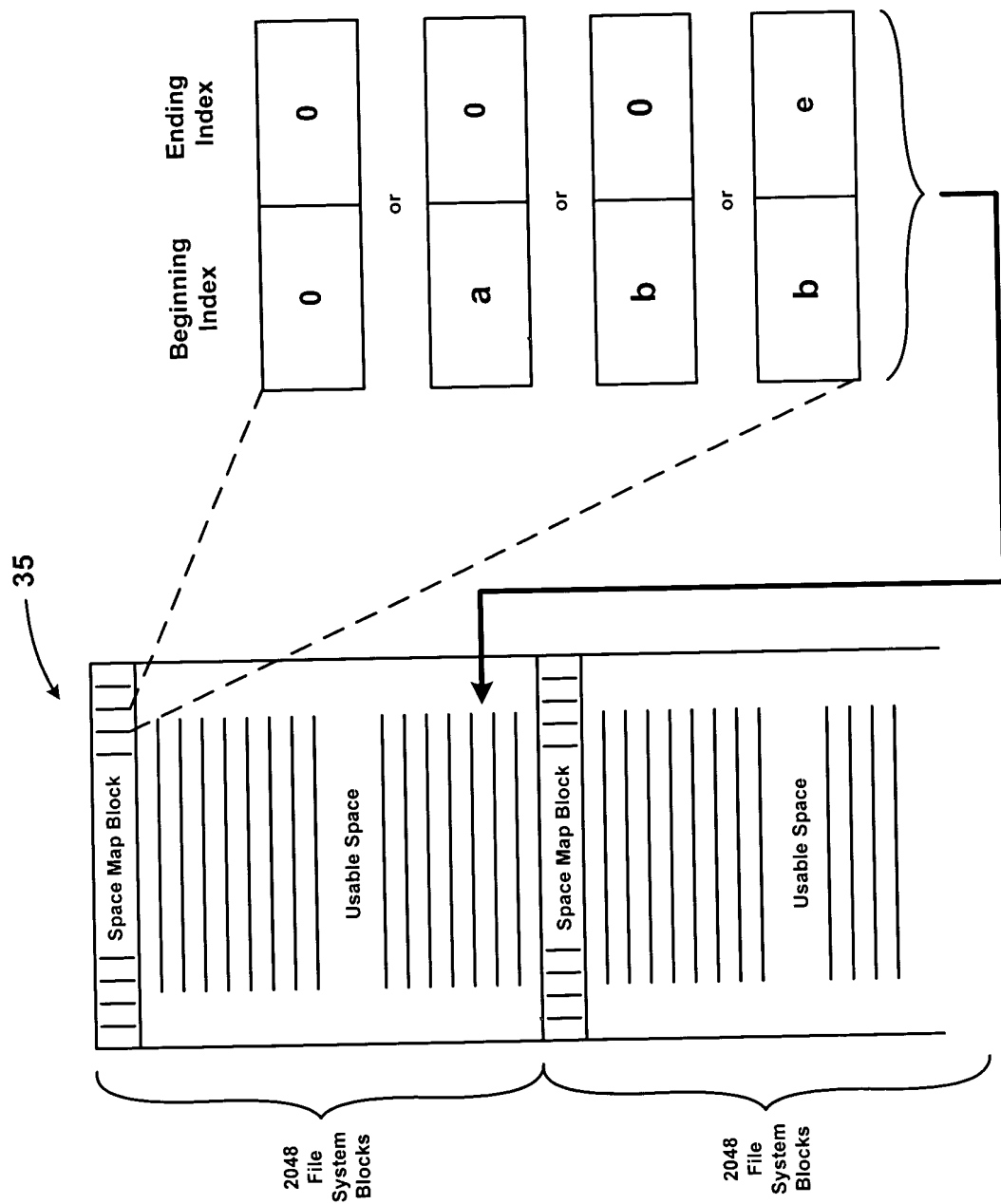


FIGURE 4

Block Used By Snapshots
10344 (Index 16) Thru
10388 (Index 13)

Block Used By Version
65993 (Index 212)
(Active File System)

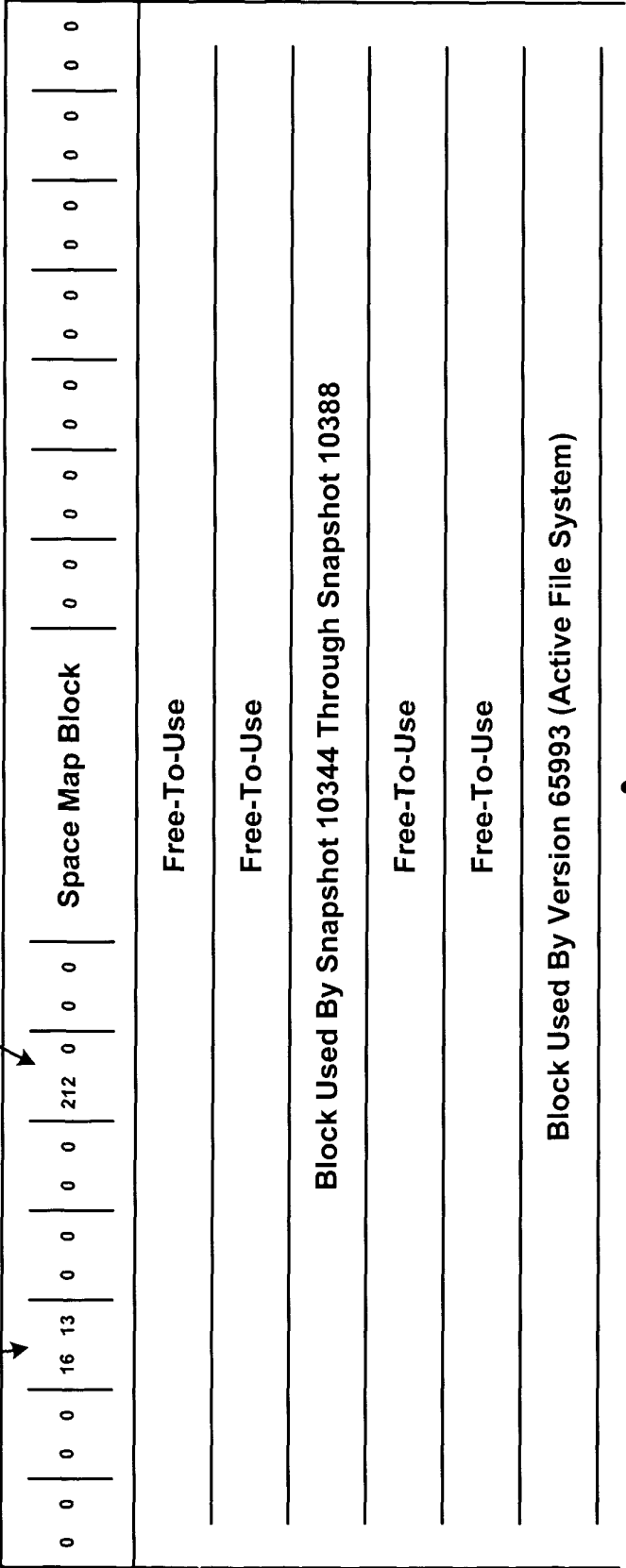


FIGURE 5

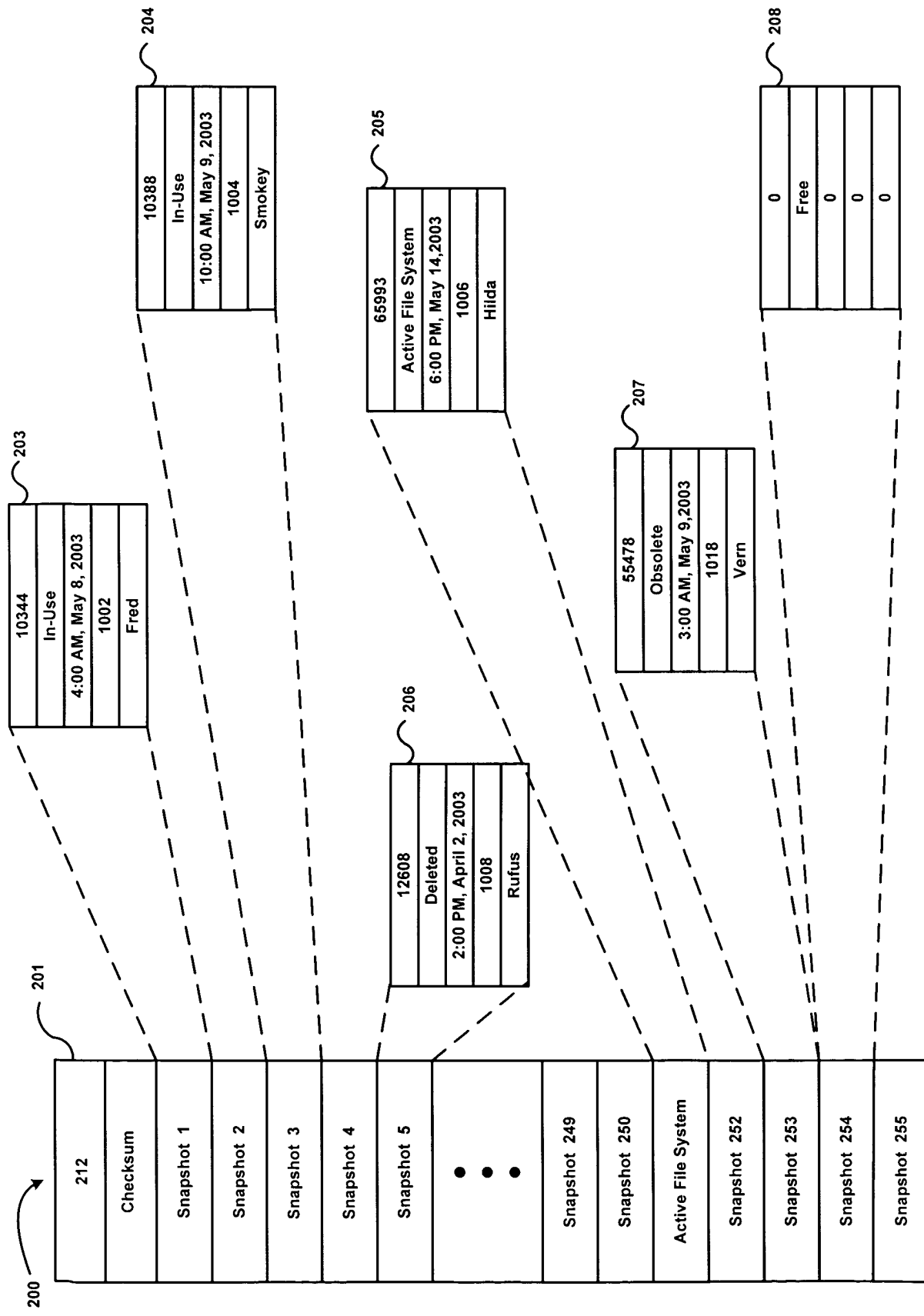


FIGURE 6

Create A File System

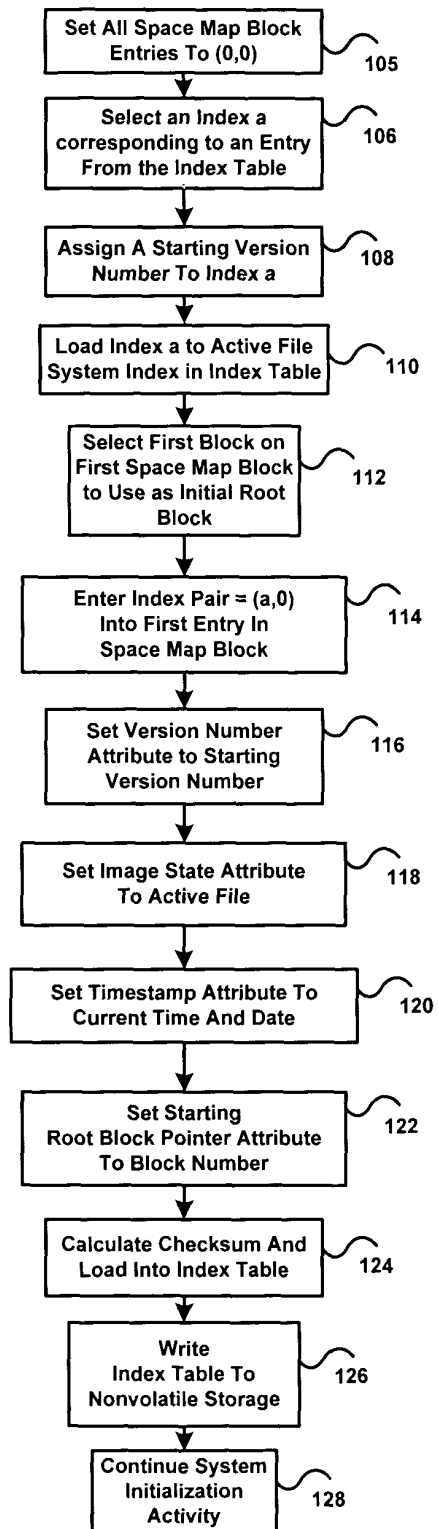


FIGURE 7

Block Management

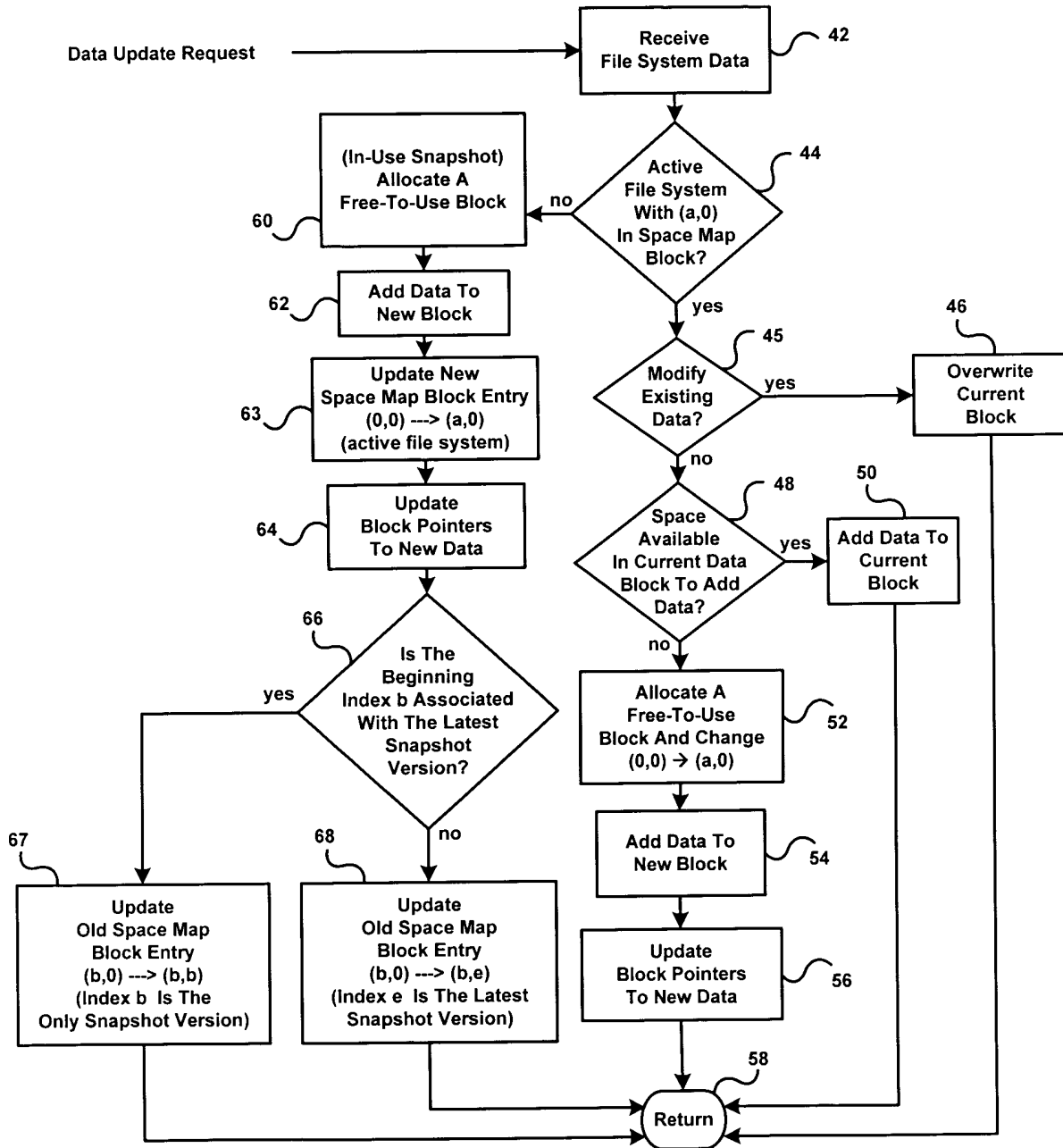


FIGURE 8

Create A File System Snapshot

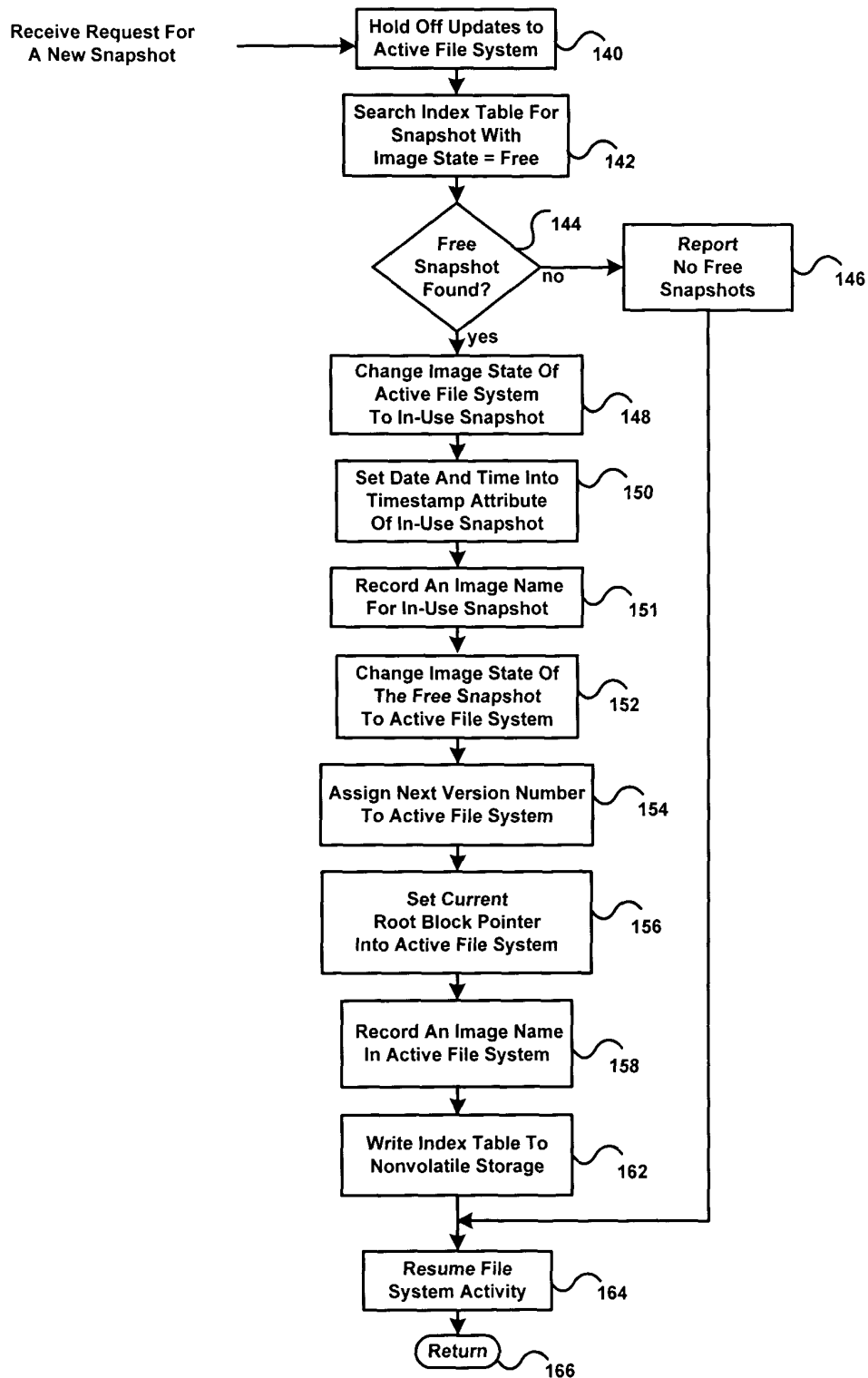


FIGURE 9

Revert To An Earlier Snapshot Version

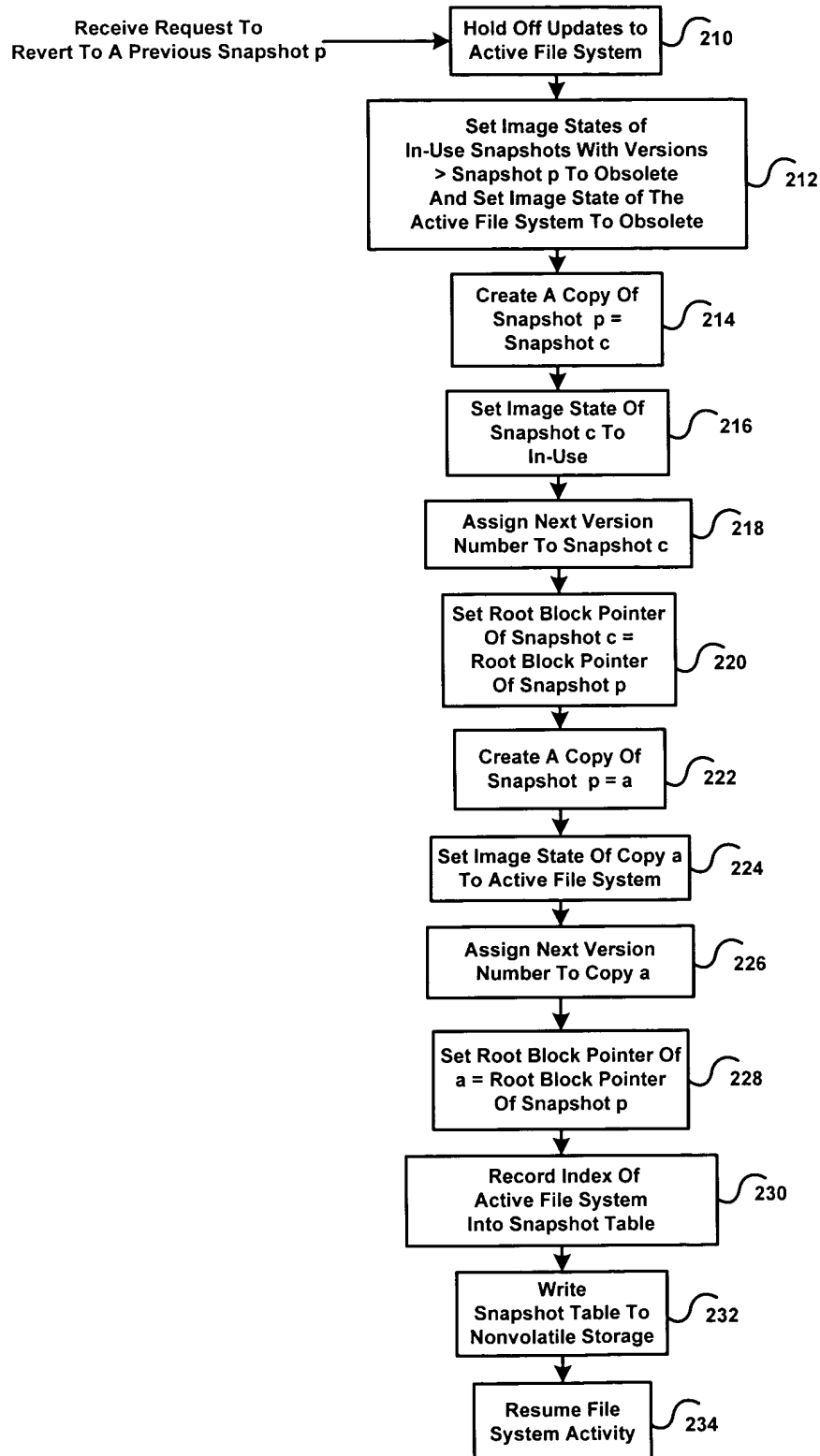


FIGURE 10

Delete A Snapshot

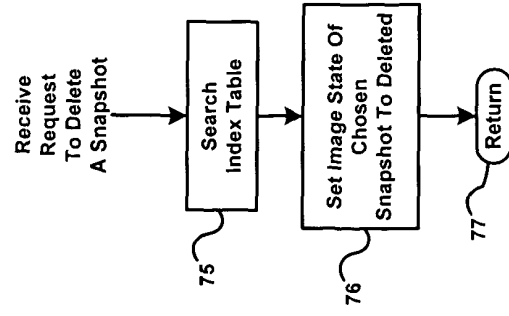


FIGURE 11a

Detect And Clean Unneeded Snapshots

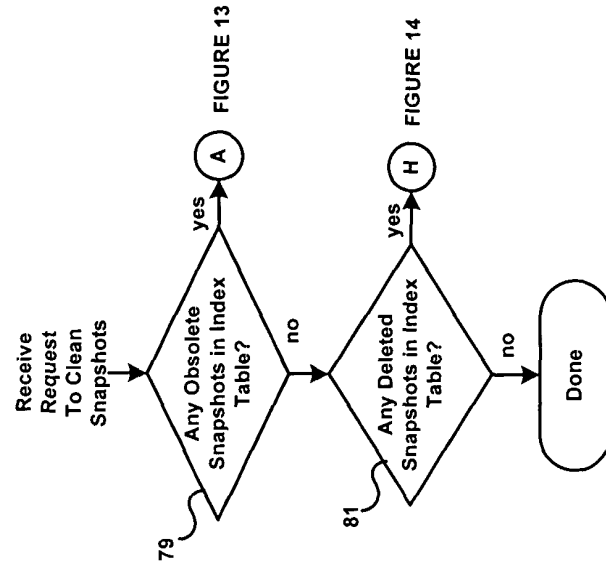


FIGURE 11b

Remove Obsolete Snapshots from Index Table

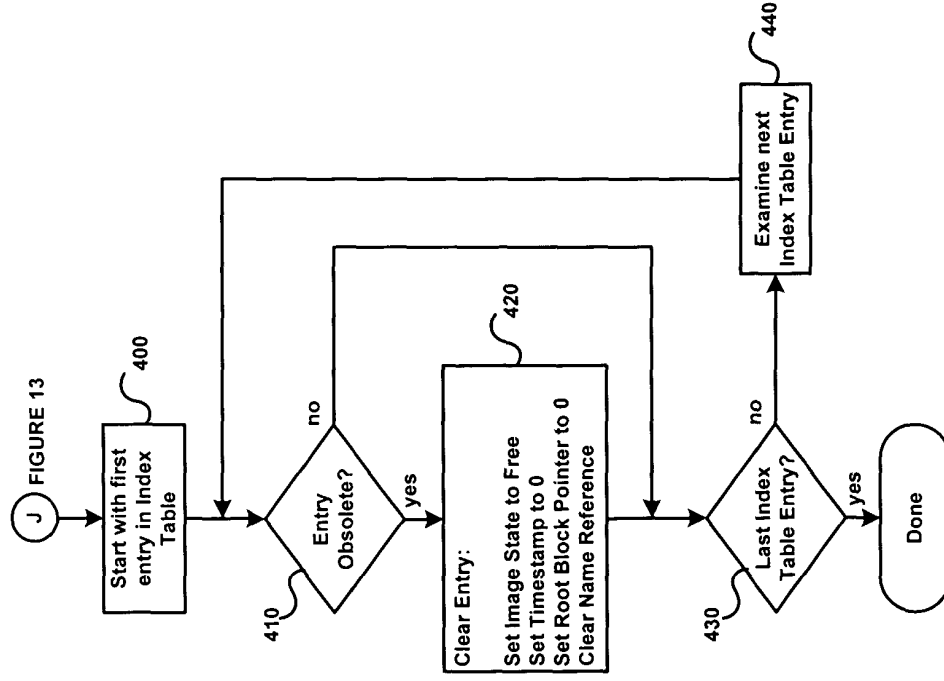


FIGURE 12a

Remove Deleted Snapshots from Index Table

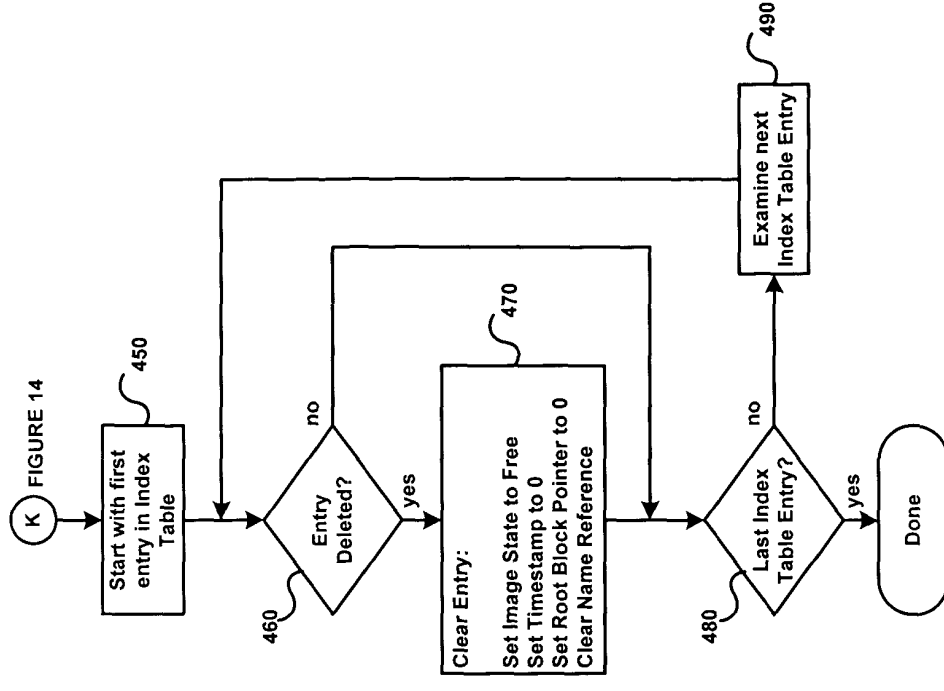


FIGURE 12b

Clean Obsolete Snapshots

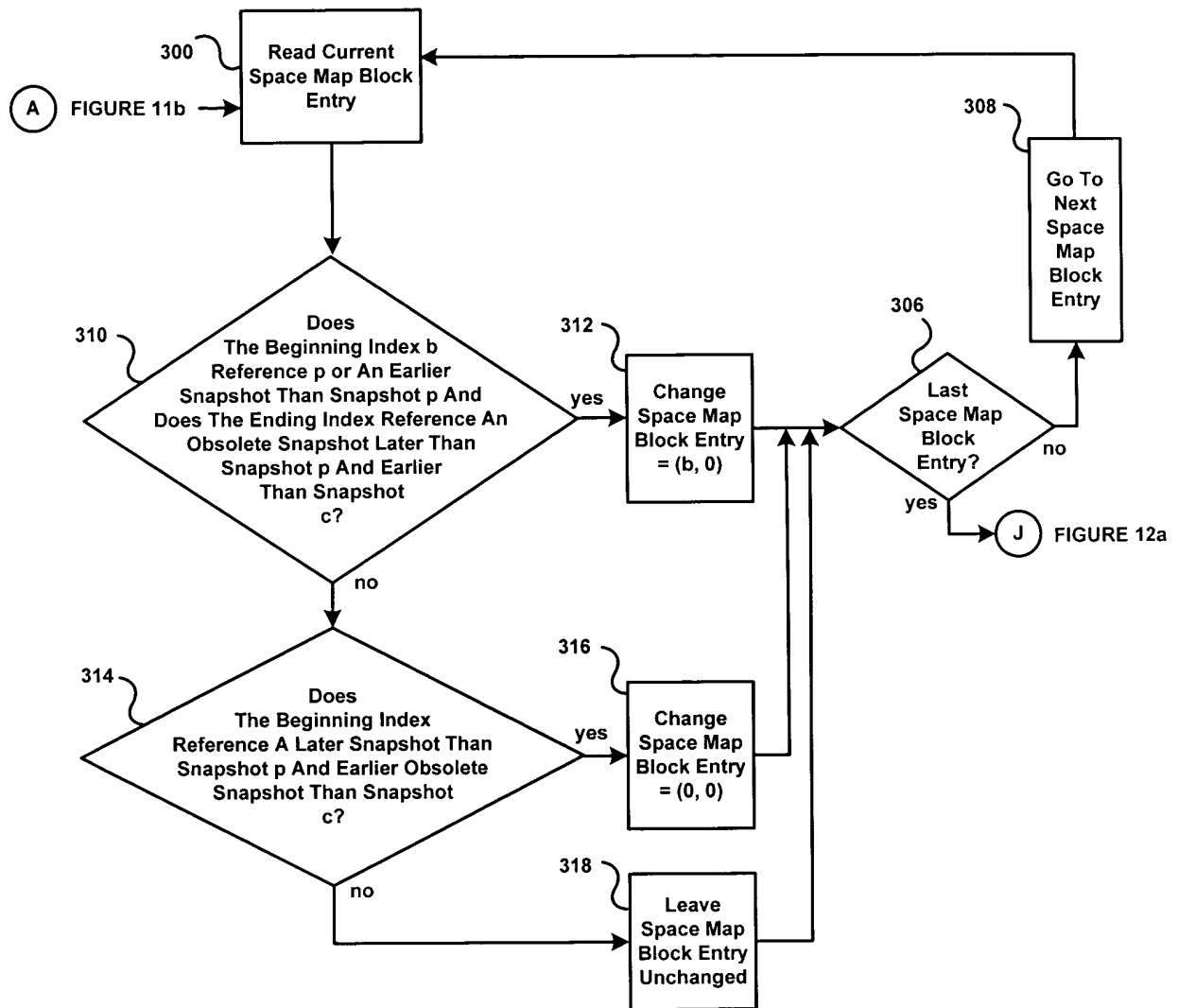


FIGURE 13

Clean Deleted Snapshots

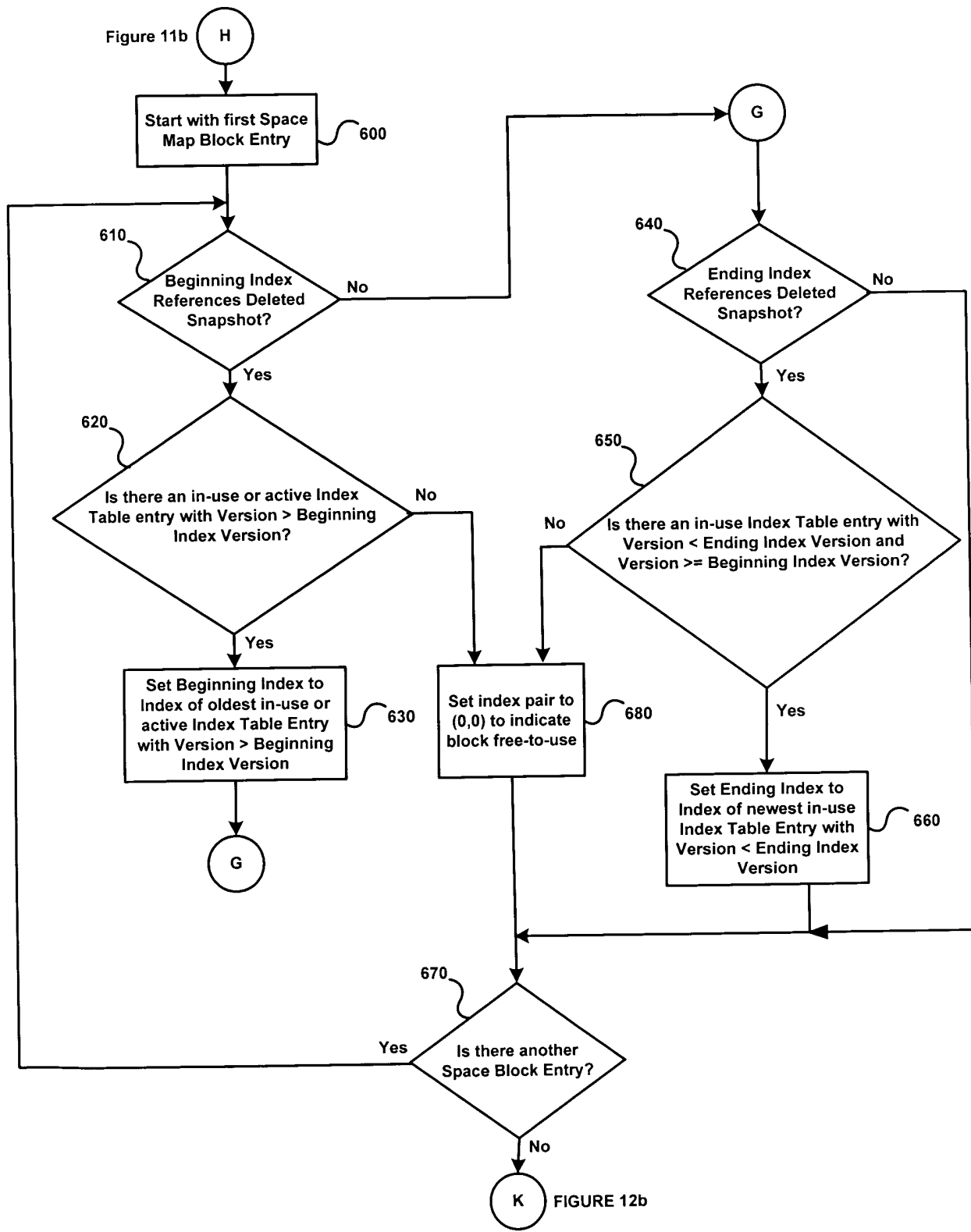


FIGURE 14

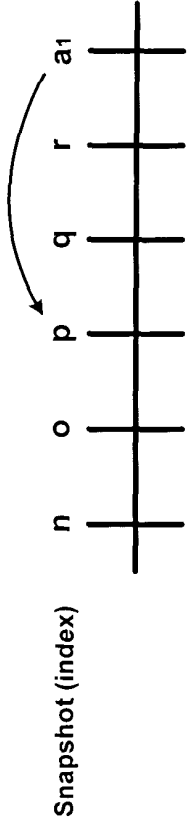


FIGURE 15a

Normal File System Operation
With In-Use Snapshots

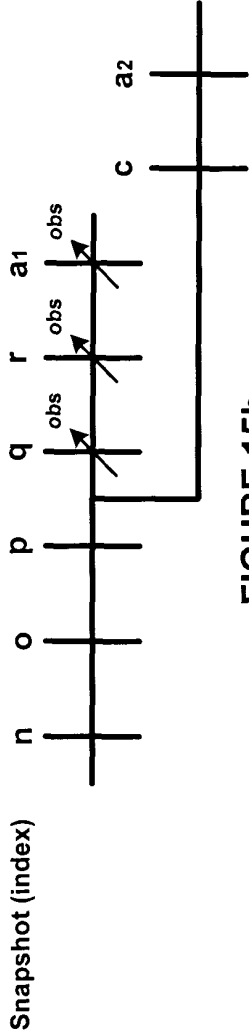


FIGURE 15b

File System Operation On Hold
Revert To Snapshot "p"
Obsolete Snapshot Process
(Clean Later In Background Process)

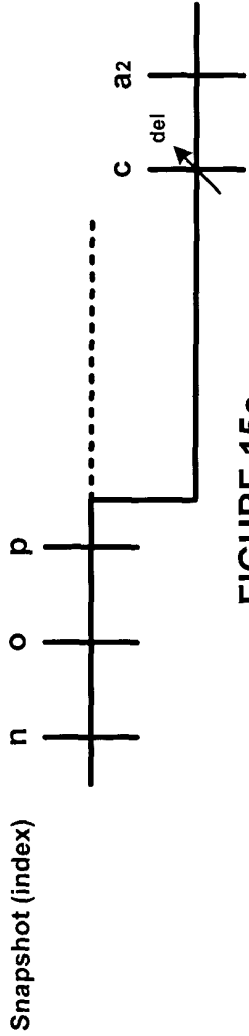


FIGURE 15c

Normal File System Operation
Cleaned Of Obsolete Snapshots
Delete Snapshot Process
(Clean Later In Background Process)

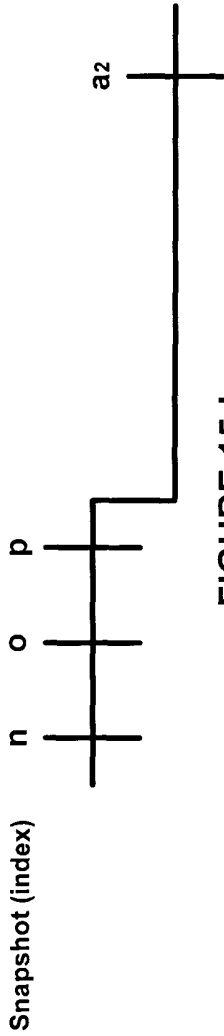
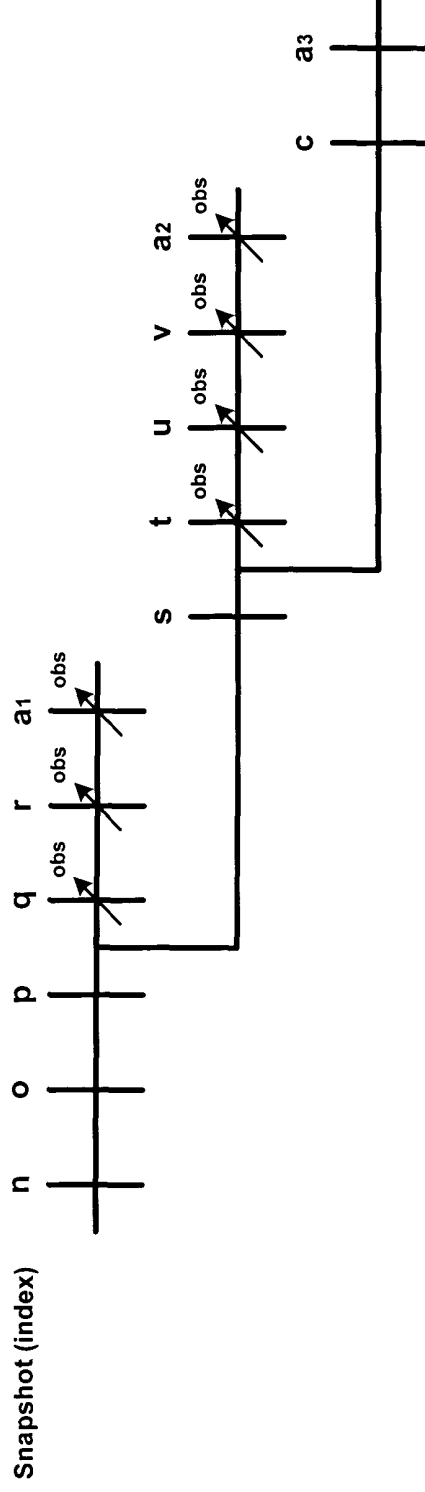


FIGURE 15d

Normal File System Operation
Cleaned Of Deleted Copy Snapshot



Multiple File System Reversions
To Snapshot "p" And To Snapshot "s"
Prior To Completing Background Cleaning Process

FIGURE 16